## IN THE CLAIMS

Please cancel and amend the claims as shown in the following listing of claims. This listing of claims will replace all prior versions, and listings, of claims in the application:

## Listing of Claims:

- 1. (Cancelled)
- (Previously Presented) The method of claim 26, wherein said vessel wallpenetrating elements include barbs.
- (Withdrawn Previously Presented) The method of claim 26, wherein said one
  or more pieces of flexible material include an adhesive applied thereto.

## Claims 4-9 (Cancelled)

- (Previously Presented) The method of claim 26, wherein said first edge is a reinforced edge.
- (Previously Presented) The method of claim 10, wherein said reinforced edge has a thickness greater than a central portion of said first piece of flexible material.
  - 12. (Cancelled)

13. (Previously Presented) The method of claim 26, wherein said vessel wall-

penetrating elements include hooks.

14. (Previously Presented) The method of claim 2, wherein said barbs penetrate said

first piece of flexible material.

Claims 15-25 (Cancelled)

(Currently Amended) A method for modifying blood flow in a vascular vessel.

the method comprising:

percutaneously delivering one or more pieces of flexible material to a site within a

vascular vessel, said one or more pieces of flexible material including a first piece of flexible

material having a first edge, said first piece of flexible material having extending therefrom a

first [[an]] array of vessel wall-penetrating elements extending longitudinally proximate said first

edge, said first array having a width extending in a direction inward of said first edge and having

vessel wall-penetrating elements occurring generally laterally with respect to one another in the

direction of said width; and

percutaneously attaching at least portions of said one or more pieces of flexible material

to walls of the vascular vessel so as to form a structure that selectively permits blood flow in a

first direction and resists blood flow in a second direction, said percutaneously attaching

including driving vessel wall-penetrating elements of said first array into a wall of the vascular

vessel so as to secure a corresponding first band of said first piece of flexible material to said

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vascular vessel wall.

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27. (Currently Amended) The method of claim 26, wherein said first piece of flexible material has an intermediate region that extends inwardly of peripheral edges of the first piece of flexible material, said first array of vessel wall-penetrating elements extending from said intermediate region remodelable properties.

28. (Previously Presented) The method of claim 26, wherein said first piece of flexible material contains collagen.

 (Previously Presented) The method of claim 26, wherein said first piece of flexible material comprises an extracellular matrix material.

(Currently Amended) The method of <u>claim 26</u> elaim 29, wherein said <u>first piece</u>
 of flexible material has remodelable properties extracellular material contains collagen.

 (Original) The method of claim 30, wherein said extracellular matrix material comprises submucosa.

 (Original) The method of claim 26, wherein said structure includes a valve having two or more leaflets.

(Withdrawn - Previously Presented) The method of claim 26, wherein said one 33.

or more pieces of flexible material comprise collagen, and wherein said percutaneously attaching

includes delivering energy to facilitate attachment of said portions to the walls.

34 (Withdrawn) The method of claim 33, wherein said energy includes

electromagnetic radiation.

35. (Withdrawn) The method of claim 34, wherein said energy is selected from

microwave, radio frequency, laser, and ultraviolet light energy.

36. (Withdrawn - Previously Presented) The method of claim 33, wherein an energy-

absorbing substance is provided in contact with said portions, and wherein said energy activates

the energy-absorbing substance to attach said portions to the walls.

37. (Withdrawn - Previously Presented) The method of claim 33, wherein the energy

welds said portions to the walls.

38 (Previously Presented) The method of claim 26, wherein said percutaneously

delivering comprises deploying the one or more pieces of flexible material from a lumen of a

percutaneously advancable device.

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 (Previously Presented) The method of claim 38, wherein said percutaneously delivering comprises deploying a delivery structure from the lumen, the delivery structure

including the one or more pieces of flexible material releasably held to an expandable element.

40. (Original) The method of claim 39, wherein the expandable element includes a

halloon

41. (Withdrawn) The method of claim 38, wherein the expandable element includes a

wire structure.

42. (Currently Amended) The method of claim 26, wherein said first band is secured

to said vascular vessel wall in a path extending at least partially longitudinally and at least

partially circumferentially along the wall.

43. (Cancelled)

44. (Cancelled)

45. (Previously Presented) The method of claim 2, wherein said barbs include

microbarbs having a diameter ranging from about 0,0005 inches to about 0,100 inches.

46. (Previously Presented) The method of claim 2, wherein said barbs include

microbarbs having a diameter of up to about 0.010 inches.

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47. (Previously Presented) The method of claim 46, wherein said diameter is at least

about 0.005 inches.

48. (Previously Presented) The method of claim 2, wherein said barbs include

microbarbs having a length ranging from about 0.001 inches to about 0.50 inches.

49. (Previously Presented) The method of claim 2, wherein said barbs include

microbarbs having a length of up to about 0.100 inches.

50. (Previously Presented) The method of claim 49, wherein said length is at least

about 0.01 inches.

51. (New) The method of claim 26, wherein said first array is more than two vessel

wall-penetrating elements wide.

52. (New) The method of claim 26, wherein said first piece of flexible material has a

second edge that is generally opposite said first edge, and wherein a second array of vessel wall-

penetrating elements extends longitudinally proximate said second edge of said first piece of

flexible material with said second array having a width extending in a direction inward of said

second edge and having vessel wall-penetrating elements occurring generally laterally with

respect to one another in the direction of the width of said second array, and with said

percutaneously attaching further including driving vessel wall-penetrating elements of said

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second array into the wall of the vascular vessel so as to secure a corresponding second band of

said first piece of flexible material to said vascular vessel wall.

53. (New) A method for modifying blood flow in a vascular vessel, the method

comprising:

percutaneously delivering one or more pieces of flexible material to a site within a

vascular vessel, said one or more pieces of flexible material including a first piece of flexible

material having a first edge, said first piece of flexible material having extending therefrom an

array of vessel wall-penetrating elements extending longitudinally proximate said first edge, said

array being more than two vessel wall-penetrating elements wide and having a width extending

in a direction inward of said first edge with vessel wall-penetrating elements occurring generally

laterally with respect to one another in the direction of said width; and

percutaneously attaching at least portions of said one or more pieces of flexible material

to walls of the vascular vessel so as to form a structure that selectively permits blood flow in a

first direction and resists blood flow in a second direction, said percutaneously attaching

including driving vessel wall-penetrating elements of said array into a wall of the vascular vessel so as to secure a corresponding band of said first piece of flexible material to said vascular vessel

wall.

54. (New) The method of claim 53, wherein said vessel wall-penetrating elements

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include microbarbs.

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